

Amendments to the Claims:

Please substitute the following clean copy text for the pending claims of the same number.

Please cancel claims 14-26 without prejudice.

Claims 1–13 (Canceled)

14. (Cancelled)

15. (Cancelled)

16. (Cancelled)

17. (Cancelled)

18. (Cancelled)

19. (Cancelled)

20. (Cancelled)

21. (Cancelled)

22. (Cancelled)

23. (Cancelled)

24. (Cancelled)

25. (Cancelled)

26. (Cancelled)

27. (Newly Added) A mold, comprising:

a housing having an opening therein;

a shell capable of fitting within the opening of the housing, wherein the shell has a cavity therein capable of receiving a molding material; and

a resistive heater located between the housing and the shell, wherein the resistive heater has a geometry and material properties that define a predetermined power distribution.

28. (Newly Added) The mold of claim 27, wherein the predetermined power distribution results in uniform temperature distribution over an outer surface of the cavity.

29. (Newly Added) The mold of claim 28, wherein the uniform temperature distribution is provided even though power distribution in the resistive heater is unequal.

30. (Newly Added) The mold of claim 27, wherein the geometry of the resistive heater includes width of the resistive heater.

31. (Newly Added) The mold of claim 27, wherein the geometry of the resistive heater includes path length of the resistive heater.

32. (Newly Added) The mold of claim 27, wherein the geometry of the resistive heater includes thickness of the resistive heater.

33. (Newly Added) The mold of claim 27, wherein the geometry of the resistive heater includes spacial distribution of the resistive heater.

34. (Newly Added) The mold of claim 27, wherein the material properties of the resistive heater include resistivity of the resistive heater.

35. (Newly Added) The mold of claim 27, wherein the resistive heater is directly adhered to the outer surface of the shell.

36. (Newly Added) The mold of claim 27, wherein the resistive heater is not directly adhered to the outer surface of the shell.

37. (Newly Added) The mold of claim 27, further comprising a thermal barrier element disposed between the heater and the housing.

38. (Newly Added) The mold of claim 27, further comprising a cooling jacket.

39. (Newly Added) The mold of claim 27, wherein said resistive heater is coupled to a power supply, wherein application of current from said power supply results in production of heat by said resistive heater.

40. (Newly Added) The mold of claim 27, wherein the resistive heater further comprises a resistive coating and an electrically insulating element.

41. (Newly Added) The mold of claim 27, wherein further comprising one or more thermal sensors.

42. (Newly Added) The mold of claim 27, wherein the thermal sensors comprise an array of thermocouples.

43. (Newly Added) The mold of claim 27, further comprising one or more additional heaters.